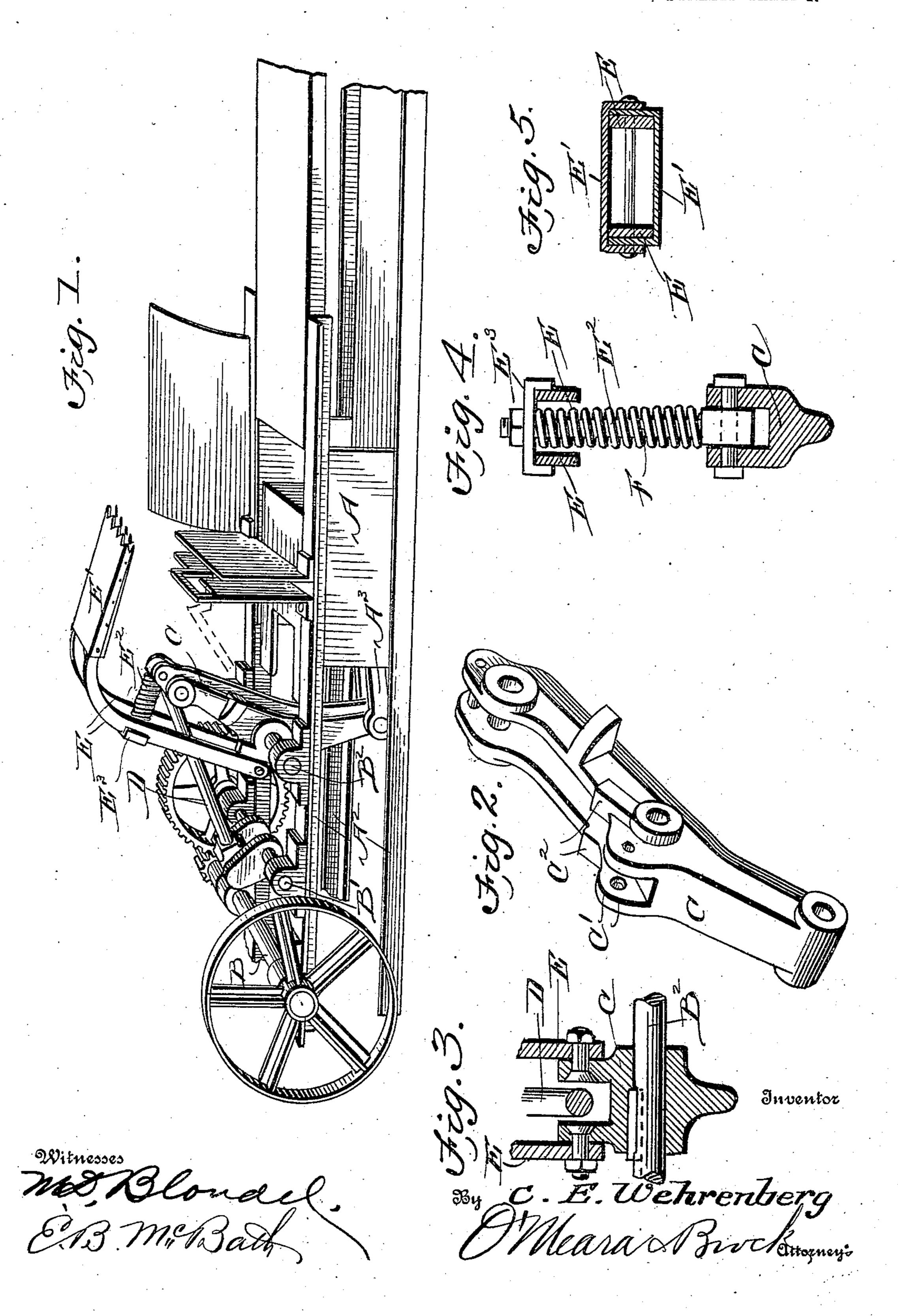
C. E. WEHRENBERG. BALING PRESS.

APPLICATION FILED OCT. 24, 1906.

2 SHEETS-SHEET 1.



No. 848,420.

PATENTED MAR. 26, 1907.

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2 SHEETS—SHEET 2.

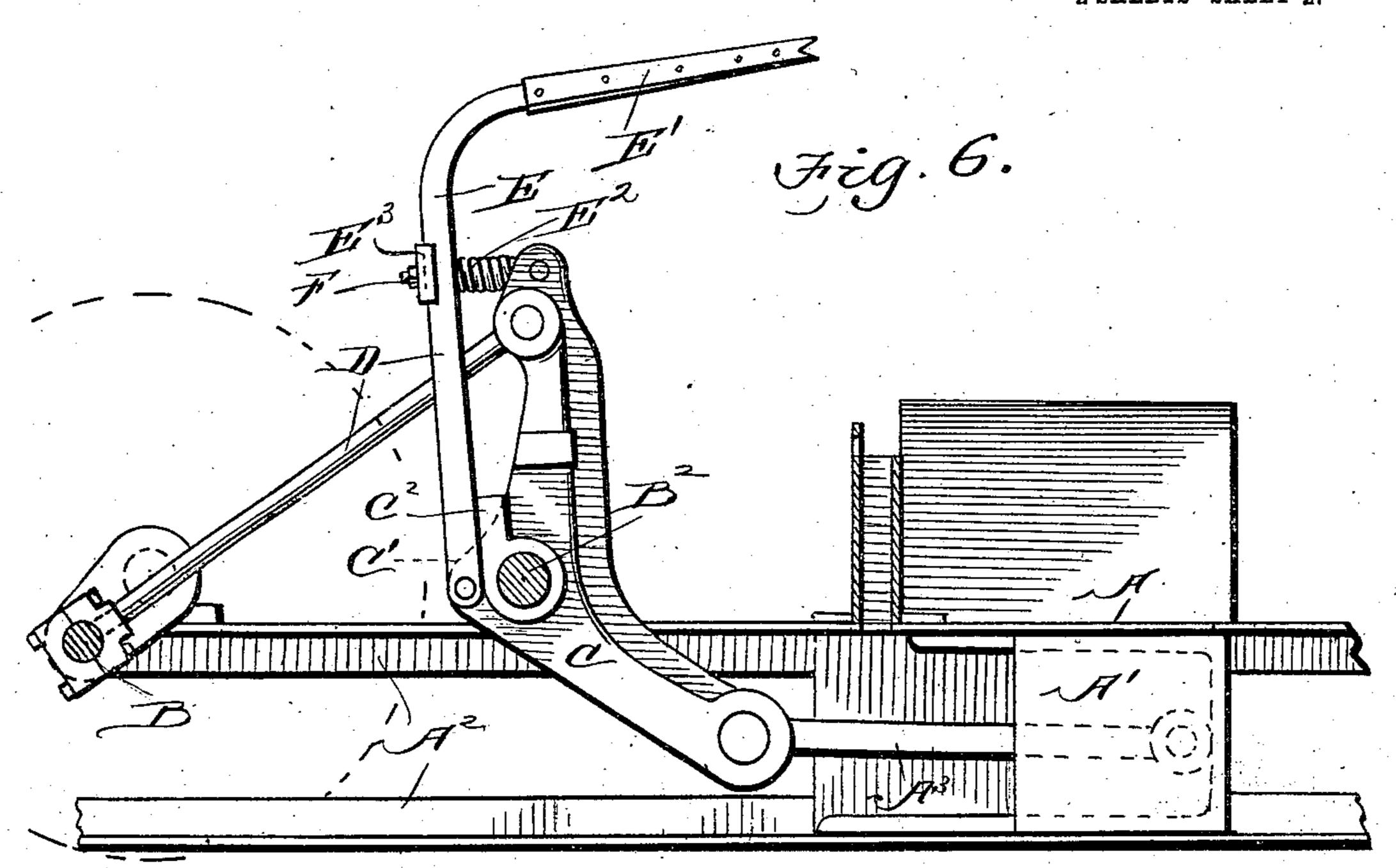
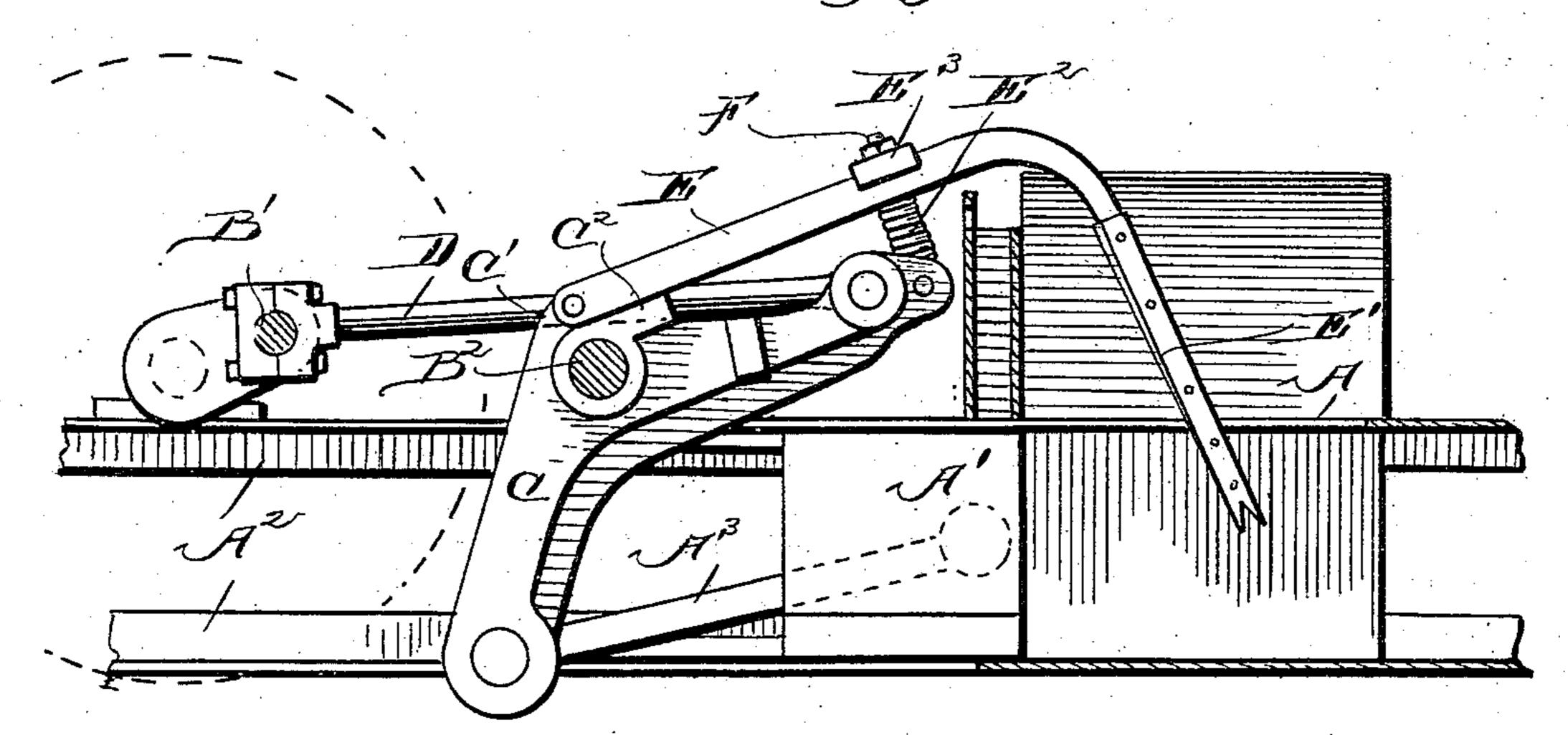


Fig. 7.



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CHARLES E. WEHRENBERG, OF MOUND CITY, ILLINOIS.

BALING-PRESS.

No. 848,420.

Specification of Letters Patent.

Patented March 26, 1907.

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To all whom it may concern:

Be it known that I, CHARLES E. WEHREN-5 State of Illinois, have invented a new and useful Improvement in Baling-Presses, of which the following is a specification.

This invention relates to a baling-press, and more especially to the form of lever 10 and manner of mounting it and the manner of constructing and mounting the feederarm, the object of the invention being, first, the delivery of a slow powerful stroke of the plunger while pressing the hay and a quick 15 returnstroke, during which time a new charge is being fed to the baling-chamber, and, secondly, a feeder-arm so arranged that the feeder-foot carried by the arm can reach the bottom of the baling-chamber and feed the 20 hay or other material being handled uniformly, so that a compact and uniform bale will be produced irrespective of the amount of material fed at each step of the baling operation.

In feeders of a solid type an ample clearance must be allowed between the bottom of the chamber and the foot-piece to allow a large charge to remain under the feederwhen it is forced down. This results in an 30 uneven bale being produced when small and large charges are fed in alternately. I overcome this objection by providing the feederarm with a coil-spring connection which permits it to adjust itself according to the 35 amount of material fed, so that it will always feed evenly, resulting in an even bale being formed.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a press 40 having my improvements applied thereto. Fig. 2 is a detail perspective view of the lever. Fig. 3 is a detail sectional view taken through the lever on the line of its fulcrum-point. Fig. 4 is a detail sectional view taken through 45 the lever and feeder-arm on the line of the spring connection, the spring being shown in elevation. Fig. 5 is a transverse section through the feeder-foot. Fig. 6 is an outline view showing partly in section and partly in 50 elevation the position of the parts at the end of an inward stroke of the plunger. Fig. 7 is a similar view showing the position of the parts at the end of an outward stroke.

In the drawings, A represents a baling-55 chamber in which is arranged the usual plunger A', and A² represents portions of the

framework of the press. Upon this framework are journaled parallel shafts B, B', and BERG, a citizen of the United States, residing | B2. The shaft B' has a crank-shaft, to which at Mound City, in the county of Pulaski and is connected one end of a pitman D. A lever 60 C is journaled upon the shaft B² and is angled, resembling in general outline an irregular bell-crank, and is provided adjacent its fulcrum-point with two parallel ears C', adjacent which are formed two shoulders C2. 65 The feeder-arm E is constructed of two parallel bars, the lower ends of which are pivotally connected to the ears C' and are curved adjacent their free ends, which ends support a foot E'. The foot E' is formed of two 70 plates of angled metal E', which are fastened, respectively, to the upper and under edges of the bars constituting the arm E. As these arms taper to a point the plates converge and are provided upon the converging ends with 75 teeth in the ordinary manner. The feederarm E is also pivotally connected to the lever C by means of a coil-spring E2, which encircles a bolt F, which bolt is pivoted to the upper end of the lever C and passes through a plate 80 E³, which rests transversely across the arm E, the plate being flanged adjacent each end to engage the sides of the arm. The bolt is secured in place by a suitable nut in the usual manner. The spring E² is secured at its 85 lower end to the bolt F and at its upper end to the plate E³. The tendency of this spring is to pull the feeder-arm toward the upper end of the lever C, the plate E³ sliding loosely upon the bolt F. By adjusting the nut the 90 tension of the spring can be regulated so that when by reason of an unusually large charge the feeder-arm approaches the outer end of the lever C sufficiently to compress the spring E² the spring will when the pressure is re- 95 leased return the feeder-arm to its normal position, as determined by the adjustment of the nut.

It will be noted from the drawings, and especially from Figs. 6 and 7, that a straight 100 line drawn from the pivotal points between the lever C and the pitman D and the lever C and plunger-rod A³, to which the lower end of the lever is pivoted, will be considerably to one side of the fulcrum-point of the lever, 105 which point is the shaft B2, this being due to the angling of the lever. This construction results in the pitman-rod D approaching the fulcrum-point as the plunger A' moves downwardly and moving gradually from said point 110 as the inward stroke commences, reaching its furthest position with respect to the shaft

B² as the plunger A' finishes its inward stroke, thus giving the greatest pressure as the material becomes more closely packed and a slow movement under a high pressure is desired.

Having thus described my invention, what I claim as new, and desire to secure by Let-

ters Patent, is—

1. The combination with a baling-press, said press having a baling-chamber, a plunger, and a plunger-rod, of a lever pivoted intermediate its ends, the said lever angled, the lower end of the lever being pivotally connected to the plunger-rod, a pitman pivotally connected to the upper end of the lever, a feeder-arm pivotally mounted upon said lever adjacent the central pivot-point of the lever, and a coil-spring connecting the said feeder-arm and the upper end of the lever.

2. In a baling-press, a baling-chamber, a plunger, a shaft, an angled lever mounted on 20 the shaft, a pitman-rod pivotally connected to one end of the lever, a plunger-rod pivotally connected to the other end of the rod, a feeder-arm provided with a feeder-foot, said feeder-arm being pivotally connected to the 25 lever adjacent the shaft, a bolt pivotally connected to an end portion of the lever adjacent the pitman, a plate adapted to engage the feeder-arm, the bolt working loosely through the plate, and a coil-spring connected at one 30 end to the bolt and at the opposite end to the plate, as and for the purpose set forth.

CHARLES E. WEHRENBERG.

Witnesses:

M. F. Murphy, Geo. Martin.